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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/993,966

DATE: 09/05/2002

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3 <110> APPLICANT: ROHAN, MICHAEL
5 <120> TITLE OF INVENTION: HUMAN AND NON-HUMAN PRIMATE HOMOLOGUES OF NKD PROTEIN,
6 NUCLEIC ACID SEQUENCES ENCODING, AND USES THEREOF
8 <130> FILE REFERENCE: 014024/0280733
10 <140> CURRENT APPLICATION NUMBER: 09/993,966
11 <141> CURRENT FILING DATE: 2001-11-27
13 <150> PRIOR APPLICATION NUMBER: 60/252,884
14 <151> PRIOR FILING DATE: 2000-11-27
16 <150> PRIOR APPLICATION NUMBER: 60/291,109
17 <151> PRIOR FILING DATE: 2001-05-16
19 <150> PRIOR APPLICATION NUMBER: 60/325,571
20 <151> PRIOR FILING DATE: 2001-10-01
22 <160> NUMBER OF SEQ ID NOS: 26
24 <170> SOFTWARE: PatentIn Ver. 2.1
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27 <211> LENGTH: 1786
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
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58 accagacata gageccctcc ccagggcccc accctgccat atgaaggacc ccacccccga 1620
59 caccacaagg cattattatt ctattaatta ttgttattat gatgattatt gttattaata 1680
60 attattgtta ctccactaat atttagctag cctacatgta gaagatctat ggaaacacag 1740
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65 <211> LENGTH: 1416

66 <212> TYPE: DNA

67 <213> ORGANISM: Mus sp.

69 <400> SEQUENCE: 2

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73 cgaggcactc gggaaactcgt gggtgacact tctagagagg ctctcgggtg ggaggacgag 240
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75 gatgagaaga gaatggagag actgagcgaa cctggccagg cctccaagaa gcagctcaag 360
76 tttgaagagc tacagtgtga tgtctctgtg gaggaggaca gccggcaaga gtggactttc 420
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83 gacctggcgg ggatagagaa ctacacgtct cagtttggac cgggatcccc ttcggtggcc 840
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90 aaacacaagc atcgagccaa ggagagccag gcgagctgcc ggggcctgca gggccccctg 1260
91 gctgcaggag gctccaccgt catggggcgg gagcagggtg gggagctgcc tgccgtggtg 1320
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97 <211> LENGTH: 470

98 <212> TYPE: PRT

99 <213> ORGANISM: Homo sapiens

101 <400> SEQUENCE: 3

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106           20           25           30
108 Gly Ile Glu Glu Trp Ile Gly Arg Gln Arg Cys Pro Gly Gly Val Ser
109           35           40           45
111 Gly Pro Arg Gln Leu Arg Leu Ala Gly Thr Ile Gly Arg Ser Thr Arg
112           50           55           60
114 Glu Leu Val Gly Asp Val Leu Arg Asp Thr Leu Ser Glu Glu Glu Glu

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118					85					90					95	
120	Leu	Gly	Ser	Gly	Asp	Glu	Lys	Lys	Met	Glu	Arg	Val	Ser	Glu	Pro	Cys
121				100					105					110		
123	Pro	Gly	Ser	Lys	Lys	Gln	Leu	Lys	Phe	Glu	Glu	Leu	Gln	Cys	Asp	Val
124			115					120					125			
126	Ser	Met	Glu	Glu	Asp	Ser	Arg	Gln	Glu	Trp	Thr	Phe	Thr	Leu	Tyr	Asp
127		130					135					140				
129	Phe	Asp	Asn	Asn	Gly	Lys	Val	Thr	Arg	Glu	Asp	Ile	Thr	Ser	Leu	Leu
130	145				150					155					160	
132	His	Thr	Ile	Tyr	Glu	Val	Val	Asp	Ser	Ser	Val	Asn	His	Ser	Pro	Thr
133				165					170						175	
135	Ser	Ser	Lys	Met	Leu	Arg	Val	Lys	Leu	Thr	Val	Ala	Pro	Asp	Gly	Ser
136			180						185					190		
138	Gln	Ser	Lys	Arg	Ser	Val	Leu	Val	Asn	Gln	Ala	Asp	Leu	Gln	Ser	Ala
139		195						200					205			
141	Arg	Pro	Arg	Ala	Glu	Thr	Lys	Pro	Thr	Glu	Asp	Leu	Arg	Ser	Trp	Glu
142		210					215						220			
144	Lys	Lys	Gln	Arg	Ala	Pro	Leu	Arg	Phe	Gln	Gly	Asp	Ser	Arg	Leu	Glu
145	225					230					235				240	
147	Gln	Ser	Gly	Cys	Tyr	His	His	Cys	Val	Asp	Glu	Asn	Ile	Glu	Arg	Arg
148				245						250				255		
150	Asn	His	Tyr	Leu	Asp	Leu	Ala	Gly	Ile	Glu	Asn	Tyr	Thr	Ser	Gln	Phe
151			260					265						270		
153	Gly	Pro	Gly	Ser	Pro	Ser	Val	Ala	Gln	Lys	Ser	Glu	Leu	Pro	Pro	Arg
154		275						280					285			
156	Thr	Ser	Asn	Pro	Thr	Arg	Ser	Arg	Ser	His	Glu	Pro	Glu	Ala	Ile	His
157		290					295					300				
159	Ile	Pro	His	Arg	Lys	Pro	Gln	Gly	Val	Asp	Pro	Ala	Ser	Phe	His	Phe
160	305				310					315					320	
162	Leu	Asp	Thr	Pro	Ile	Ala	Lys	Val	Ser	Glu	Leu	Gln	Gln	Arg	Leu	Arg
163				325						330				335		
165	Gly	Thr	Gln	Asp	Gly	Ser	Lys	His	Phe	Val	Arg	Ser	Pro	Lys	Ala	Gln
166			340						345				350			
168	Gly	Lys	Ser	Val	Gly	Val	Gly	His	Val	Ala	Arg	Gly	Ala	Arg	Asn	Lys
169		355						360					365			
171	Pro	Pro	Leu	Gly	Pro	Ala	Ile	Pro	Ala	Val	Ser	Pro	Ser	Ala	His	Leu
172		370					375						380			
174	Ala	Ala	Ser	Pro	Ala	Leu	Leu	Pro	Ser	Leu	Ala	Pro	Leu	Gly	His	Lys
175	385					390					395				400	
177	Lys	His	Lys	His	Arg	Ala	Lys	Glu	Ser	Gln	Gln	Gly	Cys	Arg	Gly	Leu
178				405						410				415		
180	Gln	Ala	Pro	Leu	Ala	Ser	Gly	Gly	Pro	Val	Leu	Gly	Arg	Glu	His	Leu
181			420						425				430			
183	Arg	Glu	Leu	Pro	Ala	Leu	Val	Val	Tyr	Glu	Ser	Gln	Ala	Gly	Gln	Pro
184		435						440					445			
186	Val	Gln	Arg	His	Glu	His	His	His	His	His	Glu	His	His	His	His	Tyr
187		450					455					460				

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194 <211> LENGTH: 471
195 <212> TYPE: PRT
196 <213> ORGANISM: Mus sp.
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202 Ser Pro Glu Gly Asp Ser Phe Ala Val Ser Ala Ala Trp Ala Arg Lys
203                      20                      25                      30
205 Gly Ile Glu Glu Trp Ile Gly Arg Gln Arg Cys Pro Gly Ser Val Ser
206                      35                      40                      45
208 Gly Pro Arg Gln Leu Arg Leu Ala Gly Thr Val Gly Arg Gly Thr Arg
209                      50                      55                      60
211 Glu Leu Val Gly Asp Thr Ser Arg Glu Ala Leu Gly Glu Glu Asp Glu
212 65                      70                      75                      80
214 Asp Asp Phe Pro Leu Glu Val Ala Leu Pro Pro Glu Lys Ile Asp Ser
215                      85                      90                      95
217 Leu Gly Ser Gly Asp Glu Lys Arg Met Glu Arg Leu Ser Glu Pro Gly
218                      100                     105                     110
220 Gln Ala Ser Lys Lys Gln Leu Lys Phe Glu Glu Leu Gln Cys Asp Val
221                      115                     120                     125
223 Ser Val Glu Glu Asp Ser Arg Gln Glu Trp Thr Phe Thr Leu Tyr Asp
224                      130                     135                     140
226 Phe Asp Asn Asn Gly Lys Val Thr Arg Glu Asp Ile Thr Ser Leu Leu
227 145                     150                     155                     160
229 His Thr Ile Tyr Glu Val Val Asp Ser Ser Val Asn His Ser Pro Thr
230                      165                     170                     175
232 Ser Ser Lys Thr Leu Arg Val Lys Leu Thr Val Ala Pro Gly Asp Ser
233                      180                     185                     190
235 Gln Ser Lys Arg Ser Val Leu Phe Asn His Thr Asp Leu Gln Ser Thr
236                      195                     200                     205
238 Arg Pro Arg Ala Asp Thr Lys Pro Ala Glu Glu Leu Arg Gly Trp Glu
239                      210                     215                     220
241 Lys Lys Gln Arg Ala Pro Leu Arg Phe Gln Gly Asp Ser His Leu Glu
242 225                     230                     235                     240
244 Gln Pro Asp Cys Tyr His His Cys Val Asp Glu Asn Ile Glu Arg Arg
245                      245                     250                     255
247 Asn His Tyr Leu Asp Leu Ala Gly Ile Glu Asn Tyr Thr Ser Gln Phe
248                      260                     265                     270
250 Gly Pro Gly Ser Pro Ser Val Ala Gln Lys Ser Glu Leu Pro Pro Arg
251                      275                     280                     285
253 Ile Ser Asn Pro Thr Arg Ser Arg Ser His Glu Pro Glu Ala Ala His
254                      290                     295                     300
256 Ile Pro His Arg Arg Pro Gln Gly Val Asp Pro Gly Ser Phe His Leu
257 305                     310                     315                     320
259 Leu Asp Thr Pro Phe Ala Lys Ala Ser Glu Leu Gln Gln Arg Leu Arg
260                      325                     330                     335

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 263 340 345 350
 265 Gly Lys Asn Met Gly Met Gly His Gly Ala Arg Gly Ala Arg Ser Lys
 266 355 360 365
 268 Pro Pro Leu Val Pro Thr Thr His Thr Val Ser Pro Ser Ala His Leu
 269 370 375 380
 271 Ala Thr Ser Pro Ala Leu Leu Pro Thr Leu Ala Pro Leu Gly His Lys
 272 385 390 395 400
 274 Lys His Lys His Arg Ala Lys Glu Ser Gln Ala Ser Cys Arg Gly Leu
 275 405 410 415
 277 Gln Gly Pro Leu Ala Ala Gly Gly Ser Thr Val Met Gly Arg Glu Gln
 278 420 425 430
 280 Val Arg Glu Leu Pro Ala Val Val Val Tyr Glu Ser Gln Ala Gly Gln
 281 435 440 445
 283 Ala Val Gln Arg His Glu His His His His His Glu His His His His
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 286 Tyr His His Phe Tyr Gln Pro
 287 465 470

290 <210> SEQ ID NO: 5

291 <211> LENGTH: 1859

292 <212> TYPE: DNA

293 <213> ORGANISM: Homo sapiens

295 <400> SEQUENCE: 5

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 298 ctcggtctcg gggctgcttc gggaggagga gagccaaggg aggcgccagg cccgcggggc 180
 299 gggcgcatgg cttaggggacg ctcccggccg ccgcagcccc agcatgggga aacttcactc 240
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